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WIRELESS OPTICAL SYSTEM FOR HIGH BANDWIDTH COMMUNICATIONS

Cross-Reference

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[0001] This application claims the benefit of U.S. Provisional Patent Application Serial No. 60/273,873 filed on March 6, 2001. This application is also related to U.S. Application Serial No. 10/090270, entitled WIRELESS OPTICAL SYSTEM FOR MULTIDIRECTIONAL HIGH BANDWIDTH COMMUNICATIONS, filed on March 4, 2002. The aforementioned applications are commonly assigned with the present invention and are incorporated herein by reference.

Field of Invention

[0001] The present invention pertains to electronic communication systems. More specifically, the systems are those that use very high data bandwidths, require very high Quality of Service (QoS) and/or transmit over significant distances greater than 5 kilometers.

Background

[0002] It is common knowledge that signals can be imposed upon laser light and LEDs by various means of modulation. It is also common knowledge that the atmosphere does not possess a uniform transmittance. Two classes of phenomenon primarily cause this. The first relates to the general chemical composition of the atmosphere and consists of bands of alternating high and low transmittance as a function of carrier frequency. These are well understood and generally well behaved.